

Notice of Allowability

Application No.

09/841,834

Examiner

Jean M Corrielus

Applicant(s)

KAPITSKAIA ET AL.

Art Unit

2162

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on September 13, 2004.
2. ☒ The allowed claim(s) is/are 1,3-5,7-9 and 11-16 renumbered as 1-13.
3. ☒ The drawings filed on 08 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

JEAN M. CORRIELUS
PRIMARY EXAMINER

Art unit 2162

DETAILED ACTION

1. This office action is in response to the amendment filed on September 13, 2004, in which claims 1-16 are presented for further examination.

Response to Arguments

2. Applicant's arguments filed on September 13, 2004 with respect to the last office action have been fully considered and are persuasive. Therefore, the rejection under 35 USC 112 and 103 has been withdrawn.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Henry T. Brendzel on January 3, 2005.

The application has been amended as follows:

1. (Amended) A method of managing a network directory cache, comprising the steps of:
receiving and storing a plurality of user queries;
creating a query template that generalizes the user queries; and retrieving directory entries answering the query template, wherein said directory entries are stored in the cache thus

Art Unit: 2162

forming said directory cache, and wherein said directory entries are retrieved after estimating benefits of storing the directory entries in the cache.

5. (Amended) A method of managing a network directory cache, comprising the steps of:

maintaining a plurality of candidate templates to be used to retrieve directory entries to store in the cache;

receiving and storing a user query; and

generating a plurality of new candidate templates that generalize the candidate templates with the user query, wherein said new candidate templates are generated after estimating benefits of storing the directory entries in the cache answering the new candidate templates.

8. (Amended) A method of managing a network directory cache, comprising the steps of:

maintaining a plurality of candidate templates;

estimating a benefit of caching directory results answering the candidate templates; and

selecting a candidate template based on its benefit estimate and retrieving directory entries answering the candidate template, wherein said directory entries are stored in the cache, and wherein said directory entries are retrieved only if they estimated benefit is greater than an estimate of benefits of old directory entries in the cache.

Art Unit: 2162

13. (Amended) A method of managing a network directory cache, comprising the steps of:

receiving and storing a plurality of user queries to form a stored plurality of user queries;
creating one or more query templates, wherein each query template generalizes a chosen subset of stored plurality of user queries;
submitting said one or more query templates as a search query to a directory database on a server; and
receiving entries of said directory database that are responsive to said queries and storing them in the cache thus forming said directory cache, wherein said directory entries are received after estimating benefits of storing directory entries in the cache.

Delete claims 2, 6 and 10 without prejudice.

Claim 3, line 1, please delete "The invention of claim 1", insert –The method of claim 1--;

Claim 4, line 1, please delete "The invention of claim 1", insert –The method of claim 1--;

Claim 7, line 1, please delete "The invention of claim 5", insert –The method of claim 5--;

Claim 9, line 1, please delete "The invention of claim 8", insert –The method of claim 8--;

Claim 11, line 1, please delete "The invention of claim 10", insert –The method of claim 8--; and

Claim 12, line 1, please delete "The invention of claim 8", insert –The method of claim 8--.

Allowable Subject Matter

4. Claims 1, 3-5, 7-9 and 11-16 are allowable in light of the Applicant's arguments (pages 5-10) and in light of the prior art made of record.

Reasons for Indicating Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Upon searching a variety of databases, the examiner respectfully submits that “creating a query template that generalizes the user queries and retrieving directory entries answering the query template, wherein said directory entries are stored in the cache, and wherein said directory entries are retrieved after estimating benefits of storing the directory entries in the cache.” in claim 1; “generating a plurality of new candidate templates that generalize the candidate templates with the user query, wherein said new candidate templates are generated after estimating benefits of storing the directory entries in the cache answering the new candidate templates” in claim 5; “selecting a candidate template based on its benefit estimate and retrieving directory entries answering the candidate template, wherein said directory entries are stored in the cache, and wherein said directory entries are retrieved only if they estimated benefit is greater than an estimate of benefits of old directory entries in the cache” in claim 8; and “submitting said one or more query templates as a search query to a directory database on a server; receiving entries of said directory database that are responsive to said queries and storing them in the cache thus forming said directory cache, wherein said directory entries are received after estimating benefits of storing directory entries in the cache” in claim 13, in conjunction with all other limitations of the dependent and independent claims are not taught nor suggested by the prior art of record (PTO-892). Therefore, all pending claims 1, 3-5, 7-9, 11-16 is hereby allowed.

Art Unit: 2162

5. Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office action if new drawings have not yet submitted. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M. Corrielus whose telephone number is (571) 272-4032. The examiner can normally be reached on Monday - Friday (8:00am - 7:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 2162

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jean M. Corrielus

Patent Examiner

January 5, 2005